

UNIVERSITY OF SOUTHERN CALIFORNIA SEA GRANT PROGRAM 2010 NSGO REVIEW

Jim Murray

USC Sea Grant Program Area

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Program Management

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- Management Team
 - ▣ Director, Linda Duguay (0.3 FTE)
 - ▣ Associate Director & Communicator, Phyllis Grifman (0.4 FTE)
 - ▣ Extension Leader: Jim Fawcett (0.5 FTE)/shares responsibility with Phyllis (~0.4 FTE)
 - ▣ Fiscal Officer: Ruth Dudas (1.0 FTE)
- In addition, ad hoc members of management team include,
 - ▣ Susan Zaleski, Coastal Resources Specialist (1.0 FTE)
 - ▣ Lynn Whitley, K-12 (0.1 FTE)
 - ▣ Linda Chilton, Sea Grant Education Coordinator (1 FTE)

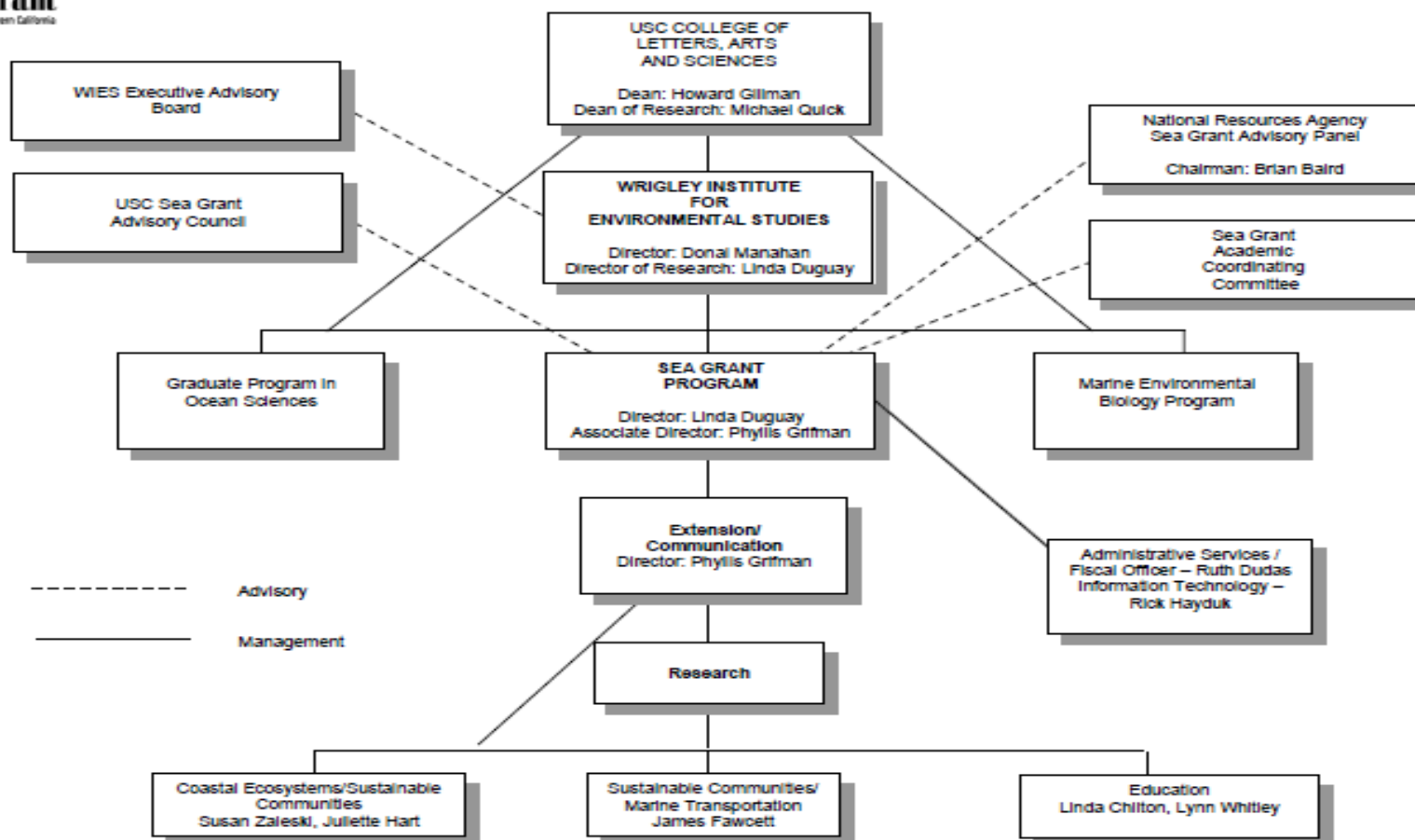
Program Organizational Chart

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ORGANIZATION UNIVERSITY OF SOUTHERN CALIFORNIA SEA GRANT PROGRAM



Extension Program

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- “Marine extension/education and communications function as one integrated Outreach program.”
- Four staff members- ~3 FTEs
- Major themes—community development, coastal pollution and ecosystems and marine transportation and seaport management

Program Management – Advisory Board

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Advisory Council - Active and interested—provided input for strategic planning. 22 Members from:

- ☐ Nauticos
- ☐ City of Long Beach
- ☐ So. Calif. Coastal Water Research Project
- ☐ NOAA/NMFS/SWRO
- ☐ Dept. of Environ. Affairs
- ☐ MMS
- ☐ Calif. Coastal Commission
- ☐ Channel Islands National Marine Sanctuary
- ☐ Los Angeles City Dept of Env. Affairs
- ☐ Los Angeles County Division of Water quality
- ☐ Port of Los Angeles
- ☐ Aquarium of the Pacific
- ☐ Manatt, Phelps & Phillips
- ☐ Heal the Bay
- ☐ Port of Long Beach
- ☐ MMS
- ☐ Loyola Marymount
- ☐ Santa Monica Bay Restoration Commission
- ☐ Division of Water Quality
- ☐ Marine Exchange of Southern California
- ☐ Southern California Marine Exchange/Vessel Traffic Service
- ☐ Victor Omelczenko

- ☐ USC SG Academic Coordinators - Different academic depts. contribute to strategic planning and research solicitations, pre-proposal review, and provide input external research opportunities.

Institutional Setting

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- University of Southern California, Los Angeles
- Report directly to Dean of Research
- Closely tied to the Wrigley Institute for Environmental Studies

State Sea Grant Program Plan – Estimated 4-yr Budget Allocation by focus area

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| National Focus Area | Focus Area from Program Strategic Plan | Estimated Level of Effort of Federal, Match and Leveraged (%) | Estimated Level of Effort of Federal and Match (\$) | Estimated Level of Effort of Leveraged (\$) |
|--|--|---|---|---|
| Safe & Sustainable Seafood Supply | | 5% | \$276,300 | |
| Sustainable Coastal Development | | 30% | \$1,657,800 | |
| Healthy Coastal Ecosystems | | 55% | \$3,039,300 | \$240,000 (USFWS) |
| Hazard Resiliency in Coastal Communities | | 10% | \$552,600 | |
| | | | | \$800,000 (OPC) |
| Total | | 100% | \$5,526,000 | |
| | | | | |

Performance Measure/Outcome Highlights

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- SCD - Number of communities that have worked with USC SG led consortium to improve sustainable practices for water and land use (2). Note: Communities are large metropolitan areas
- SCD - Number of shipowners and logistics experts who indicated increased knowledge of port planning and environmental management (1 community of 200 shipowners).
- HRCC - Number of educators who indicated increased skills of incorporating multi-hazard concerns, climate change impacts and climate patterns in their classroom instruction (>20 educators/year, from at least 15 schools).
- HCE - Number of educators trained on alternatives to releasing aquarium pets and plants books and curriculum (100 educators and 2,000 students)

Major Partners

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- Education – Los Angeles Unified School District, which is the 2nd largest in the nation (next to Chicago), UCLA, Long Beach Aquarium of the Pacific, Cabrillo Marine Aquarium, Heal the Bay, COSEE-West, (leveraged by \$250K funding from NSF)
- Sustainable Coastal communities -- California Water and Land Use Partnership – a consortium of state and regional entities, including the California State Water Quality Control Board, the California Coastal Commission, the California Stormwater Quality Association, several NGOs involved in watershed planning, the Southern California Coastal Waters Research Project (in many projects)
- Ports of Los Angeles and Long Beach, Marine Exchange of Southern California

2008/2009 Network Activities

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- Linda Duguay – Member, SGA Program Management Committee (PMC)
- Jim Fawcett – Network leader on Ports issues
- Susan Zaleski – Active in NEMO and SCC networks
- Lynn Whitley -Past chair of the SGEN, and past President, NMEA, where she still plays a very active role on the advisory body
- In 2009, USC played a leading role in the West Coast Regional project

2010 RFP Process

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- Priorities derived from strategic planning: National and State priorities, SG West Coast planning process, and input from Advisory Council, Academic Coordinators, and the Calif. Resources Agency SG Advisory Panel.
 - ▣ Priorities: Healthy Coastal Ecosystems, Hazard Resilient Coastal Communities, Sustainable Coastal Development, Safe Sustainable Seafood Supply (though bulk of this work left to CASG), Ocean Education and Environmental Literacy
- USC SG Academic Coordinators
 - ▣ Contribute to strategic planning and research solicitations, pre-proposal review, and provide input on external research opportunities.
- Calif. Resources Agency SG Advisory Panel (RASGAP)
 - ▣ Reviews pre- and final proposals and provides input on research needs.
- California Ocean Protection Council (OPC)
 - ▣ Annually provides input for solicitation of research proposals
- 16 preliminary proposals, encouraged 11 full proposals, received 9, funded 7
- Utilize funds from the OPC, (\$200,000 per year over the last 4 years represents a significant increase in research funding capabilities)

2008/2009 Program Metrics – Awards and Honors

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- Invited Film Entry, “Don’t Release a Pest, Freezing is Best!”, Monacology Environmental Film Festival (Monaco, France, Summer 2008)
- Katherine Knight Award, “Don’t Release a Pest, Freezing is Best!”, Earth Vision Environmental Film Festival (Santa Cruz, CA, Spring 2008)

2008/2009 Highlights of Metrics

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- 25 communications products, 6 peer-reviewed journal articles in 2008.
- 1,388 volunteer hours
- 1,725 teachers attended 21 teacher workshops and in turn reached 100,110 students
- 11 new students supported (2 Knauss)

2008/2009 Program Impacts

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- Island Explorer curriculum implemented by educators via internet and in classrooms
- Research and analysis of the relationship between the Port of LA and the nearby port community used by Port of LA in its community relations processes
- Research detected high survival rates in study of barotrauma on rockfishes – used by a manufacturer to market a catch and release device
- Coastal Monitoring Network, a web-based portal using 30 video cameras helps manage the beaches and provides web based information to users - L.A. County's "Golden Eagle Award."
- Sea Grant collaboration leads to adoption of new methods for insuring security at a major recreational harbor (6,000 vessels near LAX)
 - ▣ Radiation detection at Marine del Rey, expected to be funded

2008/2009 Research Accomplishments

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- Researcher S. Murray documented visitor impacts to identify changes in the abundances of marine life. Orange County shoreline communities adopted policies to foster the management and stewardship of their rocky-intertidal MPAs. The cities of Laguna Beach, Newport Beach, and Dana Point, established positions for shore or reserve managers, who patrol the coast of Orange County during low tides to educate and advise visitors on proper stewardship. Now aided by a cadre of docents.
- Quantified threats from invasive seaweed *Caulerpa taxifolia* and initiated campaign to prevent further bioinvasions
 - ▣ Video distributed to thousands of aquarium retailers and hobbyists
 - ▣ Trained customs and Fish & Game officials

Best Management Practices

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- The Ports work and relationship with the Port of LA is a model of how Sea Grant can work within a large metropolitan area